

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : HITACHI METALS LTD

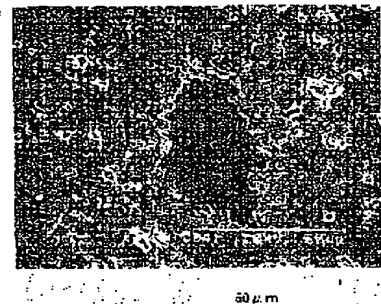
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(72)Inventor : TOKORO HISATO

(54) ALLOY POWDER FOR RARE EARTH SINTERED MAGNET SUPERIOR IN MAGNETIZATION, THE RARE EARTH SINTERED MAGNET AND ITS MANUFACTURING METHOD**(57)Abstract:**

PROBLEM TO BE SOLVED: To provide a rare earth sintered magnet, superior in magnetization for obtaining high flux in magnetization due to low magnetic field.

SOLUTION: The alloy powder for the rare earth sintered magnet mixed R-T-B based impalpable powder which contains R (R is at least one kind of rare earth elements containing Y and Nd occupying R is 50 atom.% or higher): 25-35%, B: 0.8-1.5%, M (at least one kind selected from among Ti, Cr, Ga, Ti, Mn, Co, Ni, Cu, Zn and Nb), as necessary: 8% or lower, remainder T (Fe, or Fe and Co), and unavoidable impurities in wt.%, and whose average particle diameter is 1-10 μ m, and FeACo1-A coarse powder whose particle diameter is 10-500 μ m, or FeACo1-A-X alloy coarse powder containing Fe of 80 at.% or higher.

**LEGAL STATUS**

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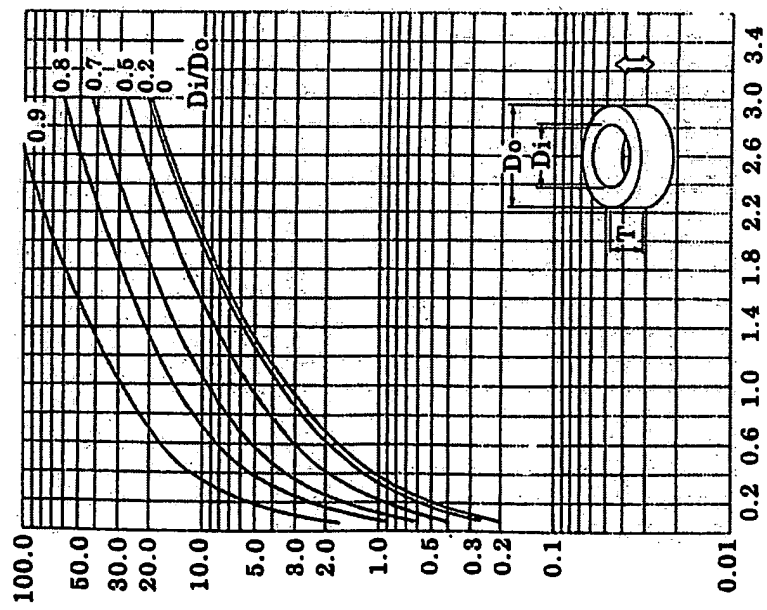
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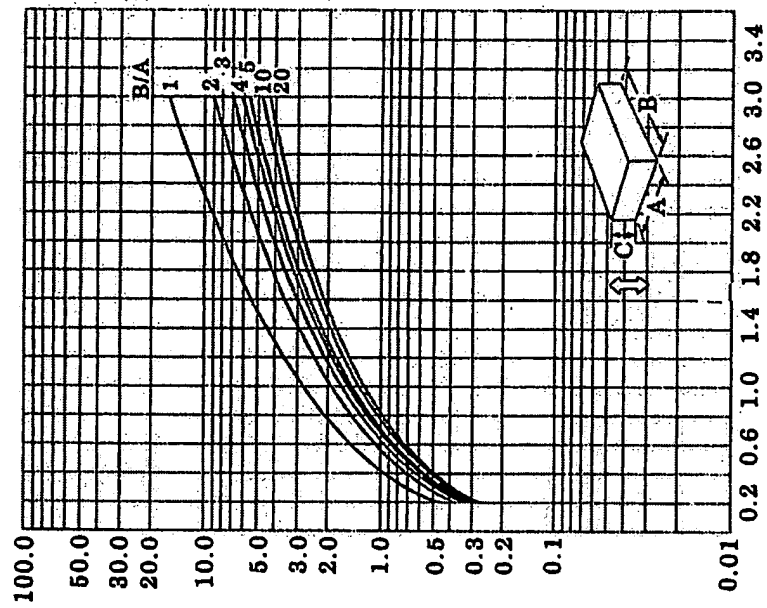
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(a) Ring-shaped Magnet



(b) Rectangular Magnet

Figure 5-4 on page 146 of "Kidorui Eikyu Jishaku
(Rare earth permanent magnets),"

Yoshio Tawara & Ken Ohashi, Morikita Shuppan Co., Ltd.